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(54) ERROR CORRECTION CIRCUIT

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a recovery device that is used to reduce a circuit scale of the error correction circuit processing an error correction code with a long code length.

SOLUTION: The correction circuit is provided with a memory circuit storing error correction codes before and after correction, a syndrome calculation section 1 that calculates a syndrome of before-correction data 101, an error value/error position calculation section 2 that calculates an error value/error position from the syndrome, an XOR gate 3 that reads again data before correction from the memory and applies exclusive OR to the data and an output of the error value/error position calculation section 2, and an output control section 5 that outputs after-correction data based on output enable signal to write back the corrected data to the memory circuit.

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